



هذه هي أول مرة في تاريخ الأردن  
نرى في هذا اليوم في هذا المكان  
هذا هو المكان الذي ولد فيه الأردن  
هذا هو المكان الذي ولد فيه الأردن

هذه هي أول مرة في تاريخ الأردن  
نرى في هذا اليوم في هذا المكان

هذه هي أول مرة في تاريخ الأردن  
نرى في هذا اليوم في هذا المكان

هذه هي أول مرة في تاريخ الأردن  
نرى في هذا اليوم في هذا المكان  
هذه هي أول مرة في تاريخ الأردن  
نرى في هذا اليوم في هذا المكان

2006 هذه هي أول مرة في تاريخ الأردن





Κατά τη διάρκεια της έρευνας, οι ερωτηθέντες ενηλίκους (Ν = 215) που συμμετείχαν στην έρευνα, είχαν ηλικία από 18 έως 65 ετών, με μέση ηλικία 37,5 ετών. Η ηλικιακή ομάδα των 18-24 ετών αποτελούσε το 12,1%, η ηλικιακή ομάδα των 25-34 ετών αποτελούσε το 28,8%, η ηλικιακή ομάδα των 35-44 ετών αποτελούσε το 32,1%, η ηλικιακή ομάδα των 45-54 ετών αποτελούσε το 19,5%, η ηλικιακή ομάδα των 55-64 ετών αποτελούσε το 7,2%, η ηλικιακή ομάδα των 65 ετών και άνω αποτελούσε το 0,3%.

†051 !f

Yǎu Ādǐ

[illegible]





ÖZĞİŦY AĦİ ZĞDĞŦ σ LĞDĞ KZĞKĞ ĖĖ Ėdž(8)  
 .ÖDŽYŦĖĖ

42

$$. + \frac{1}{2} \frac{1}{\rho} \frac{d\rho}{dt} \frac{d\sigma}{dt} \frac{d\tau}{dt} \quad (9)$$

43

$$y_{\text{old}}(K) + \alpha \frac{1}{K} \sum_{i=1}^K \left( \frac{1}{i} \sum_{j=1}^i y_{\text{old}}(j) \right) = \frac{1}{K} \sum_{i=1}^K y_{\text{old}}(i) \quad (10)$$

44

$$\Sigma \mathfrak{A} \circ \mathbb{L} \mathfrak{J} \mathfrak{O} \mathfrak{Z} \mathfrak{K} \mathfrak{G} \mathfrak{P} \mathfrak{U} \mathfrak{O} \mathfrak{T} \mathfrak{L} \mathfrak{K} \mathfrak{f} \mathfrak{y} \mathfrak{O} \mathfrak{Z} \mathfrak{N} \mathfrak{R} \mathfrak{J} (11)$$

47

$$K\tilde{G} \times_{\mathbb{Z}} D \times_{\mathbb{Z}} G \times_{\mathbb{Z}} K \cong \text{colim}_{j \in \mathbb{Z}} (A + \mathbb{Z} \cdot \mathbb{Z}) \times_{\mathbb{Z}} K \tilde{G} \times_{\mathbb{Z}} A \times_{\mathbb{Z}} K \quad (12)$$

3 oüdz + q

3 oDŽYÄř ÄdŽ

~~3007202~~

†05T !f

63      +čǎŋ ġrāt ōšyā ġif wǧidžā ġodžōklīd (D)

69 100f 62AT 05YÄ 6:f Σ 2pKÄoLL0Z0ZK06ff 1pD (Y)

[illegible]

82 1001f 6P2A h, 1A 6f Σ 2KÅL 1022Z K 6P1 f 1D (6)





# **Abstract**

## **Teachers Evaluation of the Content of Computer Curriculum for Basic School and their Attitudes Toward it.**

**Bushrah Nawaf Sulty AL-Saraireh**

**Mu'tah University, 2006**

This study aimed at evaluating the content of basic school curriculum from teachers point of view and investigating their attitudes toward it.

The population of the study consisted of (174) teacher who teach the curriculum in AL-KARAK directorate. A sample of (95) teachers was randomly selected. Two five-point-likert scale questionnaires were developed. One questionnaire for evaluating the content where, the other was for investigating teachers attitudes. The validity of the questionnaires was assured by a panel of judges, where, the reliability was estimated by Cronbach- $\alpha$ , the reliability coefficient for the evaluation and attitudes questionnaires where (0.82) and (0.88) respectively.

The study revealed the following results:

1. The teachers highly rated the content of the curriculum except on three items related to individual differences, contributions of Arab and non-Arabs scholars, and redundancy of some content item which were moderately rated.
  2. Female teachers ratings were statistically ( $p < 0.05$ ) higher than that at male teachers.
  3. The ratings of diploma holders were statistically ( $p < 0.05$ ) higher than that of bachelor degree holder .
  4. There were statistically significant differences in teachers rating due to the interaction between teachers gender and their qualification.
  5. Teachers attitude toward teaching this curriculum in basic school were positively high.
  6. There were no statistically significant differences ( $p < 0.05$ ) in teachers attitudes that could attributed to their gender, qualification, or the interaction between gender and qualification.
- Revision of curriculum content were recommended in such away that takes into account students individual differences, highlighting the contribution of the scholar in this field, and minimizing the repetition, motivating the teachers of computer curriculum was recommended as well.







yr Ä Ö5YÄ Gf dP R f i DZž 2Rf Dž ýdž f i Ä Gf  
 .H Dž K GÄ dž dž ħ Gf dž U ħ h Ä G N dž h  
 YÄ Gf DZž 2pöt ũσ ũ T ù P dž Dž Dž ä Ä ħ ù dž W  
 .Öz dž f ä Ä ħ dž Ö5p 2 dž T P R  
 K Gf Kf DZž 1995 ũ 2 dž Y p 2 Ä ħ 2 h f 2004 ũ K p 2 ž ÷ ù dž  
 ý Gf p p ħ h Ä p Ä dž K Gf dž U zh dž K dž Ö ħ Rf Y 2 Gf ħ f Y Ä ù ħ  
 ý Gf ũ Y 2 Gf ħ ħ N J K ħ f + ũ ũ ħ f 2 p f ħ dž L pž ħ Gf dž + ũ K Ä dž  
 :+ dž

[illegible][illegible]

!oaf KČPĀLĀdž ZĀpĭ !oYĀ Ćf DĀžYĖPġ.ġ  
 pĀeky !ĀŪqPĭf yĥpLĀdž ġZgŷnf Lĭdĭ Ĺ!Ā  
 Lĭž Ć ZpĥgDžPdž KČ ĹT Pġ Ō5LĭdĀdž  
 !DžYĀ Ćf PġPġfĭ DžZpġf DġyĥKČĀdž  
 YĀ Ćf Ō5Lĭ T PġdžLĀdž ġZgĀ Ū ĀPġ Ō5  
 .Σ Zpġdž Ō5YĀ Ćf Ĥġž ĀPġ

yĀpNĭdžNĭfġpĀ+ŌĜ+Zĭ ĀRŌĀPġgZġ ĀNĤYĀŪ Ćf  
 ĭ DžYĀT oDždžĭf KČdž ġZgĀ ZgĀŪĀ KČĀdž KČġ LĭZPĀ  
 .(2004 KġĜ)KČġ KČĀdž ZgĀŪ LĭžZĀdžZġĀ+ĀDžNġf  
 ĭ DžŌŪġĀ+ŌĜoġf KČdž ġZgĀK+!ČNĭĭ Dž(2002)LĀĜ NġZĀ  
 .NĭLġPdžNġZĭDžKČĀ+ŌĜġf KČġ

### :ĤDġĤf NġĤĤ ĤĤ

(Computer Literacy)YĀ Ćf !ŌDĀodž1

(Computer Assisted Instruction) YĀ Ćf ĤZĤdžDž- 2

: Lĭž Ĥ(CIA)

Ĥ ZĤġĀLġ.1

ŌT ĀT Pġ Σ ĀPġ.2

Ōdž ZĀoġf.3

ŌĤf Dž.4

ĤĤdž.5

!Ĥdžy.6

!ŌdžYĤŪ.7

Dġ.8

(Computer Managed Instruction) YĀ Ćf ĤĤpġDž- 3

!ĤĤdžZġŪ yĤž ĀPġĤĤ Dž ĀoĤĤġĤ Ĥ (CMI)





(1988- 1987) Ödž Ljā. (IBM) YĀLj dŷ Ā Ğ lənjāzəĀf fāĀĀ  
yōž Ō5lənĵĪf yēĀk ləzō DĀ Ū hənĵōž Ā ūl fūl 2fōž40) Kgūu'D  
t ō t hənĵōž 2fōž90) (1989- 1988) Ōl 2fōf dēf Ō5Kgūu'D 2fōf  
lənĵDKZzĀĀ Ūl 2fōž160) YĀ Ğl f Σ 2fō ŌūRf Σ 2fōdž fūZ dūDž  
.Σ 2fōf Ljāfz Ī DžAKHTER

fōzDpĀ Ū hənĵōž fĪ 2fōž60) (1991- 1990) Dž Kgūu'D  
yĵĪ Ī Dž hūf Ljākt ō hū dēz fōz Ū Σ 2fōf Ī Dž zūnjĪf yūēĀk  
.lōfĀf t oĪ Ō5YūŪ (4) yf! zĜĪ

lənĵāΣ 2fōf YDžPĀ (2000- 1999) Ōl 2fōf dēzf ŌūĀ  
t ŌlĀfĀ t Ōl fĪ 2 Āt Dž Ōl fōz YĀ Ğl fōz fōz DpĀ Ū YĀ Ğ  
Dž t Dž dž Ōl 2fōf t ŪPĪf yōz KĀr ŌĀ. || !f Ōl 2fōf Dž Ō5ĜfPĀ  
t 2fōdž t dēf t fĪ t Ōl Ljāzō hū YĀ Ğl fōz DpĀ 5yōz ūl f Ī ĀlĀf  
f t σ t ūλ yfĀ hū Ī ĀlĀf ŌlĀf yĀŪf Ljā f Ō5KĜ ūt PĪf yōdž  
.ĜĀŪD

YĀ Ğl f Σ 2fō hūzəĀf KĪh (2002- 2001) Ōl 2fōf dēf ŌūĀ  
Σ 2fōk Dž ŪĜĀŪD Ljā σ yfĀ hū t Dž Σ 2fōdž yōž Ō5yĪf 2 t ūDž  
) 2fōPĀ. ĜĀŪD Ljā σ yfĀ Ā 2fōĀf yĪ fĀ Ljāf 2 t f Ō5YĀ Ğl f  
Ī !oYĀ Ğl f yōz 2 fōD Ljā (2002) 2fōŪf Ū Āzūz f Ū zūnj f 2fōŪf  
:Ōdž Dž t dēf KĜ dž

lĀŪdž ō ĀĀf t fō Ō5t fōD ūfz gĀ hū dēf yōNĪ .D  
fĪ 2fōf lōz f KĜ dēf ĜĀĀf YĀ Ğl fōz 5yĪ t ūō  
āβ 2 ĀPĪf ĀD Dž fēgĪ Dž fōz fōz fōz fōz fōz fōz  
t ūdž yĪf Ljā Ōl ō hū YĀ ūl Ğl f Ljā dž hū dēf  
.hū āβ t fĀf



[illegible]





### : hēdēhēd3.1

YÄ Gfj UGjdž ĀodžyĀo Ljōzž fčc2 Zkfl f2pf lPnjyĀGok  
+Hūf yŭP Ljž !Ā NjōfkĀoL DīGfĀ Gž +ē ē ūf +Dždž2 ÄT ù!  
 : +ūf fl f2pf +DžLž

ŸǺ Ğ!f uŃjžǻĎdžŸǺ Ğ!f ŌđžKřčkĞž : ýǺŮf ýřǻ !f  
P Ğž+ř ĞŮf +DžđžŌ5Đř đž  
Ō5( α =0.05)+ğǻ og+!Ůp KJRžǺ25|| ĞŷjyùNj:ŌùĞf ýřǻ ù!f  
KĞǻ Ąđž

äzKčř+č ě Ů+DždžŸ Å Ğf Uñjž ĀodžŁđž KfZqk  
HđjhýZĜf Ā ŌZĠň Ůf YĀlf Ā Ōđž ýNđž Zğđž  
+DžDžŸ Å Ğf Uñjž Kčřž ŌđžK Ğf Ğžt !Ć:f ýđ ù:f

+đ ě Ůf

Přidání nových zdrojů  
 Ověření (α = 0.05) + kontrola výsledků

Öz + Ö Üf + DZdž Ö5YÄ Gf uGfž žpKÄLYÄ Gf Ödžž  
ýNdž ÜÖZGfžŸ YÄLj) ÖZGfžŸ YÄLj ĩ ZGfdžLdž D ĩ!gäzùzk  
Ödžž  
GfžžýZGfÄ ÜDdžž

## : H3U L JYHE4.1

: Yǎ Ğíf UŋjžĀodžĀk-1  
+Dždž2 Ą ! Yǎ Ğíf UŋjžĀodžYǎł Ğíf ŌudžĀkjučĵk  
U26f Ő Ğē K24ō UdžLdž ĞlŋDyŋP Ldž fĀ Ğēž+đ ĞŪf

Nřř ĞŹĚ ý†ThwGđjžăĂodŽ Žž: YĂ Ğf UđjžăĂodž- 2  
KĞULJĂ LđjĂJĂ †RđJĂ KĞuzJĂ DđjžĂ KĞzuzJf †ZĂudžđž  
.†č ZđđžY†Jf ŐDĐđž Jđđž†TkŎJf KĞŝŝJĂ đđJĂ Kj2GđđJĂ  
(2004ŬđđžĂ Σ Lđ)

: ~~Gž~~ž + ě ĞŮf + Dždž 3

Lřf z ĀŤ If ýdĚ Ā Ů ĞŮ dđž + dŽdŁ dž xčf + ù | dŹ Ů Ñ  
 ā Āodž Ĳ Ů ĞŮ yčf! z T If + ěč K Š fĀ. ŽTčfĀ ył čfĀ  
 .+ xčf + | dŹ učf ž Āodž dž Ĳ čfž

[illegible]

: hēfēl ēfēDŽ1

Ö5YÄ Gef KÖdZ ÖdZŽ ZŽ f2pf lJNJK2T kf - 1  
+U6dz+zof DÖZĴA+özf KÖödž pž+öödž†  
2P:f ÖLzö GZÜDn06/2005 Œ f2pf DÖDŽ zù†f  
.ă2PKÖödž ZŽpf DÖzk pz

[illegible]

Ō5

2006/2005 9 20 20

U JEDNOSTI JE IZDAVAN IZ OBLASTI  
POSREDOVANJE U PROMETU NEPOKRETNOSTI





.ž hč!f+hčž dčž ě Āčdž lčž dčž.7

f1 f2pf ZÄodž#Tk Öf Y Ä öf Σ æk ÄoLjKörfÜöü dæ öü 5Ä  
KÜödžÖ5NÄ! yff LfÜjf lœ ö5jöþjZÄpKörfÜf Y zæzüÜlQf  
ÄoLf2df jörf +zdzÖ5Σ gvf DZZÖ5KörfÜf +öwDpÄ Ügædž Nö  
ï Rf p2df üäö.NjDÄö ï Rf || ÄDž YÄljohff LjczÖÖGÄ Üljzdž pÄž  
Lf Ä özzHÖGÖlj|oöLDyör öLjdžYür ÄžÄoLy nÄžGökydö  
f1 f2phLöznjž LjžÄ5.(1993ÜpæTjY1995Üj üdžljÄoLjGÄ NjNöf  
Körf2pfÄ Σ gvf DZZÄodžKörfÜf Yür ÄžLjzhö+ö üdv KÖNörfÜf  
. (1983Üpæzf pz Ý1992Ü Äüzj)GföTA GfÄDKpæk GñžčÄDž

[illegible][illegible]



[illegible]

## 2.2

äÄodžǎkK!ÄŕÖf KĚzpf ÜKčt ůlǐ !g+|HĚf KĚzpf KđT  
KĚzpfÄ Ü Ä Ğf Σ əpkĂoLKčRŭf K!ÄŕÖf KĚzpfÄ ÜUčjü dž  
.KčRŭfÄ učigž DǎKLŏKzdž Öf

•f Nijefexi jadžnŋ l inŋž hēl je & qē: ÄNŲehaŋē

[illegible]

Zōzǎ ĭ Ān f zōǎ ū f t ō p k f o ŋ ž l g f d x f z ù Ā D . D

YÄ G!f YÄ) ÄN! oBp ýÄZYT σ Bñ!f Ö ZpZf YÄ!f

2 T DŽ Ā Ģ ģ Ÿ Ģ Ļ ģ Ģ ũ Ů (Ů Ģ Ů ģ y Ģ Ů ģ 2 T ù DŽ

[illegible]

YÄŦ 6!f Ö&T dÄÖdžKf2qkYŦ σ

Zōzǎ ĭ Ānǐ zǎŏŋ t̚ɸ K'fəŋzǒz d̪y fū t̪f yù p̪y

Ö512#Rdž(Ě) ĀNj oĚpýoĹŸŮ o pñ!f Ů 2oĹŸ(Ě!f

ŁǫŹdžřĲf ýř Łř Ğđw(Ǿ Ğũ Łdž ž Ŧ ĐžǺ Ğř





[illegible][illegible][illegible]

yčř ĭ ǱǱǱǱ og†!Ůp ĩ R₃25řňǺǱǱ Ğ ǱǱǱǱ K₂nĭDǱǱǱǱ  
 řNĭDǱǱǱǱ ĞǱǱ ĭ2nĭř ĭ!gǻzzǱŮǱǱǱǱ ĞǱǱǱ Ĥ ħǱǱ ĭ ǱǱ KŮǱǱǱǱ  
 ĀoLǱǱ ĞǱǱ ŌǱǱ KǱǱǱǱ ǱǱǱǱ yǱ ĭ! yǻř ĩ ĩǱǱǱ NǱ K₂nĭDǱǱǱǱ  
 Σ ǱǱ ĭ ǱǱ ĞǱǱ ǱǱ ĭ2nĭř ǱǱǱǱ yǱǱǱ LpǱǱ Ĥ ĞǱǱ KǱǱǱ Ĥ ħ



+hōz dšā Ār dš 2 T f ĩ !gK 5N ĩ f 2p (1998) L Ā ū ē ā z ū n D  
 +ō Ā Ğ f dš dš 2p ū Ō 5 L Ā dš + u 5 dš 2p dš 5 Ō Ğ ū f 2T Ğ f 2 T ĩ f  
 2 Ā R Ō Z Ğ ū f Y Ā ĩ f 2 ĩ f 2p h K dš Ğ ū Ā Ğ f Ā o L D Ğ ū f K ū f 2 Ā  
 . Y Ā Ğ f Ā o L D Ğ ū f K ū f 2 Ā +ō Ā Ğ f dš dš 2p dš 5 Ō ( + Ğ Ā  
 + Ğ ū f dš dš 2p dš h Ğ Ā Ğ ū f (593) L Ā ĩ f 2p f + Ğ Z K L Ā ĩ f K ū f  
 3 q o R Ā + h Ğ Ā Ğ ū f (1905) 2 Ğ ū f ĩ f 2p f y dš dš ĩ dš Ğ Ā T ū z f + Ğ ū f ū ĩ f  
 +hōz dšā Ār dš Ğ ū f Ō dš 2p f Ğ ū f L Ā ĩ f dš 2p f dš ĩ f 2p f ū 2 ū z  
 L Ā dš 2p ū f Y Ā L Ā ĩ f (30) L Ā ĩ f +ō Ā Ğ f dš dš 2p f 2 T ū ĩ f  
 || Ğ ū f L Ā ĩ f K 5 f f Ā ū Y Ā Ğ f Ā o L K ū f f 2 Ğ dš dš f ĩ f Ā ū f dš  
 + Ğ ū f o g t ! ū p K ĩ f 3 Ā 2 5 || Ğ ū f K ĩ f L Ā Y Ā Ğ f Ā o L ĩ hōz dšā Ğ ū f K ū f  
 f Ā ĩ ĩ dš Ğ ū f K ĩ f Ā ū f + Z Ā dš dš Ğ ū f ! Ā Ō p Ğ K ū f f 2 Ğ dš dš  
 +ō Ā Ğ f dš dš 2p dš dšā Ār dš h Ğ ū f o g t ! f Ā + h Ā dš dš f + ū p ĩ z  
 . Y Ā Ğ f Ā o L D Ğ ū f Ā

Ā o L Y Ā Ğ f Ō dšā Ğ ū f f 2 Ğ ū f ! g K 5 N ĩ f 2p (1999) 2 Ğ L Ā ĩ f  
 L Ā ĩ f Ā Ō Z Ğ ū f Y Ā ĩ f 2 ĩ f ! g 2 2 Ā ĩ f Ā Ō dšā Y Ā Ğ f + o h dš dš dš ĩ f  
 Ō dšā Ğ ū f L Ā ĩ f 2p f + Ğ Z K L Ā ĩ f K ū f K ū f Ğ ū f f ĩ ĩ ĩ f ū dšā Ğ ū f  
 (244) dš dš 2p f ĩ f dš dš dš f Th Ā Ğ f L Ā ĩ f Ā Ō dšā Y Ā Ğ f  
 (293) ĩ f 2p f y dš dš ĩ dš % 83.28 N ĩ L Ā ĩ f Ā ū f dšā Ğ ū f  
 + Ğ ū f + dšā Ō 5 dšā + dš K ū f dšā Ğ ū f ĩ dš dš dš dš dš Ğ dš dš  
 + o h dš dš Ā o L Y Ā Ğ f Ō dšā Ğ ū f f L Ā ĩ f K 2 ĩ dš dš + dš dš  
 Y Ā ĩ f 2 ū p Ğ 2 dš ū K ū f f ĩ ĩ ĩ f Ā + dšā Ğ ū f Y Ā ū ĩ f  
 ĩ f 2p f N ĩ K 5 f Ā . 2 dšā Ō 5 L Ā ĩ f 2 ū p Ğ 2 dš dš Ğ Ā Ō ū Z Ğ ū f  
 ĩ dšā Ğ ū f L Ā ĩ f Ā Ō Z Ğ ū f Y Ā ĩ f L Ā ĩ f 2 ĩ dš dš dš dš f Ā ū ĩ f L Ā ĩ f  
 . Ō dšā Y Ā Ğ f + o h dš dš Ā o L Ā dšā K ū f f









Dori & Barnea ,1994))  $\bar{G} \bar{A} \bar{G} \bar{A} \bar{I}$   $\bar{Z} \bar{A} \bar{P} \bar{A}$  (1999)  $\bar{Z} \bar{G}$   $\bar{L} \bar{J} \bar{I}$   $\bar{f} \bar{z} \bar{p} \bar{O} \bar{S} \parallel$   $\bar{I} \bar{R} \bar{Z} \bar{h} \bar{p}$   
 $\bar{f} \bar{A} \bar{A} \bar{Z} \bar{h} \bar{J} \bar{A}$  (1998)  $\bar{I} \bar{A} \bar{G}$   $\bar{P} \bar{A}$  (1985)  $\bar{O} \bar{D} \bar{O} \bar{Z}$  (1989)  $\bar{K} \bar{G} \bar{O} \bar{A} \bar{J} \bar{A}$   
. (Chen,1986)  $\bar{L} \bar{J} \bar{I}$   $\bar{f} \bar{z} \bar{p} \bar{A}$  (Munger,G & Loyd ,B, 1989)  
 $\bar{L} \bar{J} \bar{I}$   $\bar{o} \bar{k} \bar{O} \bar{S} \bar{Z} \bar{f} \bar{I} \bar{A}$   $\bar{G} \bar{I} \bar{f}$   $\bar{I} \bar{Z} \bar{h} \bar{D} \bar{Z} \bar{P} \parallel$   $\bar{G} \bar{I} \bar{f}$   $\bar{K} \bar{G} \bar{f} \bar{z} \bar{p} \bar{f}$   $\bar{N} \bar{R} \bar{L} \bar{K} \bar{Z} \bar{h} \bar{p} \bar{D} \bar{G} \bar{d} \bar{z}$   
(1999)  $\bar{Z} \bar{G}$   $\bar{I} \bar{A}$  (1985)  $\bar{O} \bar{D} \bar{O} \bar{Z} \bar{I}$   $\bar{f} \bar{z} \bar{p}$   $\bar{N} \bar{R} \bar{L} \bar{N} \bar{P} \bar{h} \bar{p} \bar{D} \bar{G} \bar{d} \bar{z}$   $\bar{P} \bar{u} \bar{N} \bar{A}$   $\bar{K} \bar{G} \bar{N} \bar{G} \bar{f} \bar{J}$   
. (1990)  $\bar{f} \bar{h} \bar{O} \bar{J} \bar{A}$   
 $\bar{Y} \bar{A} \bar{J} \bar{f}$   $\bar{Z}$   $\bar{U} \bar{R} \bar{P} \bar{U}$   $\bar{Z} \bar{f}$   $\bar{f} \bar{h} \bar{A} \bar{O} \bar{U}$   $\bar{N} \bar{J} \bar{f} \parallel$   $\bar{G} \bar{I} \bar{f}$   $\bar{K} \bar{G} \bar{f} \bar{z} \bar{p} \bar{f}$   $\bar{N} \bar{R} \bar{L} \bar{K} \bar{Z} \bar{h} \bar{p} \bar{D} \bar{G} \bar{d} \bar{z}$   
 $\bar{A}$  (1999)  $\bar{Z} \bar{G}$   $\bar{u} \bar{L} \bar{P} \bar{u} \bar{5} \bar{G} \bar{u} \bar{d} \bar{z} \bar{L} \bar{P} \bar{u} \bar{d} \bar{z} \bar{K} \bar{G} \bar{N} \bar{G} \bar{f} \bar{I}$   $\bar{u} \bar{Z} \bar{Z} \bar{O} \bar{u} \bar{Z} \bar{G} \bar{h} \bar{J} \bar{f}$   
 $\bar{L} \bar{h} \bar{y} \bar{Z} \bar{G} \bar{D} \bar{Z} \bar{f} \parallel$   $\bar{G} \bar{I} \bar{J} \bar{G} \bar{A}$  (Munger,G & Loyd ,B 1989)  $\bar{f} \bar{A} \bar{u} \bar{!} \bar{A} \bar{Z} \bar{h} \bar{p} \bar{J} \bar{A}$   
.  $\bar{L} \bar{P} \bar{d} \bar{z} \bar{K} \bar{G} \bar{N} \bar{G} \bar{f} \bar{I}$   $\bar{Z} \bar{Z} \bar{Z} \bar{h} \bar{J} \bar{A} \bar{O} \bar{Z} \bar{G} \bar{h} \bar{J} \bar{f}$   $\bar{Y} \bar{A} \bar{J} \bar{f}$   
 $\bar{Z} \bar{f} \parallel$   $\bar{G} \bar{I} \bar{J} \bar{L} \bar{D}$  (1992)  $\bar{O} \bar{Z} \bar{G} \bar{h} \bar{J} \bar{f} \bar{I}$   $\bar{f} \bar{z} \bar{p}$   $\bar{K} \bar{G} \bar{f} \bar{z} \bar{p} \bar{f}$   $\bar{U}$   $\bar{u} \bar{z} \bar{h} \bar{K} \bar{Z} \bar{h} \bar{p} \bar{D} \bar{G} \bar{d} \bar{z} \bar{O} \bar{u}$   
.  $\bar{I}$   $\bar{G} \bar{I} \bar{f}$   $\bar{O} \bar{G}$   $\bar{!} \bar{A} \bar{Y} \bar{A}$   $\bar{G} \bar{I} \bar{f}$   $\bar{A} \bar{o} \bar{L} \bar{K} \bar{G} \bar{N} \bar{G} \bar{f} \bar{I}$   $\bar{O} \bar{S} \Sigma$   $\bar{L} \bar{J} \bar{D} \bar{Z}$   
 $\bar{G} \bar{h} \bar{p} \bar{O} \bar{S} \bar{G} \bar{h}$   $\bar{K} \bar{u} \bar{Z} \bar{Z}$   $\bar{O} \bar{R} \bar{f}$   $\bar{K} \bar{G} \bar{f} \bar{z} \bar{p} \bar{f}$   $\bar{L} \bar{Z}$   $\bar{I} \bar{A}$   $\bar{G} \bar{I} \bar{f}$   $\bar{f} \bar{z} \bar{p} \bar{f}$   $\bar{K} \bar{G} \bar{Z} \bar{P} \bar{f}$   $\bar{f} \bar{u} \bar{P} \bar{A}$   
 $\bar{I} \bar{Z} \bar{f} \bar{A} \bar{N} \bar{J} \bar{K} \bar{I} \bar{O} \bar{f} \bar{z} \bar{p} \bar{I} \bar{P} \bar{G} \bar{f}$   $\bar{Y} \bar{A}$   $\bar{G} \bar{I} \bar{f}$   $\bar{A} \bar{o} \bar{L} \bar{J} \bar{P} \bar{d} \bar{z} \bar{K} \bar{G} \bar{N} \bar{G} \bar{f}$   $\bar{L} \bar{Z}$   $\bar{Z}$   $\bar{T} \bar{f} \bar{D} \bar{Z}$   $\bar{Z} \bar{h} \bar{p} \bar{D}$   
 $\bar{K} \bar{f} \bar{Z} \bar{G} \bar{d} \bar{z} \bar{K} \bar{G} \bar{N} \bar{G} \bar{f} \bar{I}$   $\bar{I} \bar{N} \bar{J} \bar{P} \bar{u} \bar{Z} \bar{A}$   $\bar{Y} \bar{A}$   $\bar{G} \bar{I} \bar{f}$   $\bar{U} \bar{G} \bar{I} \bar{J} \bar{L} \bar{P} \bar{Z}$   $\bar{I} \bar{A} \bar{P} \bar{U} \bar{f}$   $\bar{D} \bar{Z} \bar{f} \bar{A} \bar{I} \bar{A} \bar{R} \bar{f}$   
 $\bar{I} \bar{A} \bar{G} \bar{I} \bar{f}$   $\bar{K} \bar{G} \bar{f} \bar{z} \bar{p} \bar{f}$   $\bar{L} \bar{P} \bar{L} \bar{J} \bar{o}$   $\bar{O} \bar{S} \bar{U}$   $\bar{O} \bar{d} \bar{Z} \bar{f} \bar{y} \bar{N} \bar{J} \bar{A}$   $\bar{O} \bar{u} \bar{Z} \bar{G} \bar{h} \bar{J} \bar{f}$   $\bar{Y} \bar{A} \bar{J} \bar{f} \bar{I}$   $\bar{A} \bar{Z} \bar{h} \bar{p} \bar{D}$   
.  $\bar{L} \bar{Z} \bar{G} \bar{d} \bar{z} \bar{O} \bar{d} \bar{Z} \bar{Q} \bar{Z} \bar{f}$   $\bar{Y} \bar{A}$   $\bar{G} \bar{I} \bar{f}$   $\bar{A} \bar{o} \bar{L} \bar{J} \bar{P} \bar{d} \bar{z} \bar{K} \bar{G} \bar{N} \bar{G} \bar{f}$   $\bar{L} \bar{Z}$   $\bar{Z}$   $\bar{T} \bar{f} \bar{D} \bar{Z}$   $\bar{Z} \bar{h} \bar{p} \bar{D}$

### **. $\bar{L} \bar{J} \bar{f} \bar{P} \bar{U} \bar{N} \bar{J} \bar{N} \bar{J} \bar{P} \bar{Z} \bar{I} \bar{N} \bar{J} \bar{L} \bar{I} \bar{N} \bar{J} \bar{Z} \bar{H} \bar{E} \bar{L} \bar{J} \bar{E} \bar{f} \bar{O} \bar{d} \bar{E} \bar{H} \bar{O} \bar{P} \bar{E} \bar{H} \bar{O} \bar{P} \bar{E}$**

$\bar{Y} \bar{A}$   $\bar{G} \bar{I} \bar{f}$   $\bar{y} \bar{O} \bar{P} \bar{g} \bar{I} \bar{A} \bar{h} \bar{K} \bar{O} \bar{A} \bar{K} \bar{I}$   $\bar{!} \bar{g} \bar{K} \bar{f} \bar{N} \bar{J} \bar{I}$   $\bar{f} \bar{z} \bar{p} \bar{h}$  (1998)  $\bar{O} \bar{O} \bar{U} \bar{f}$   $\bar{D} \bar{Z} \bar{P}$   
 $\bar{L} \bar{P} \bar{d} \bar{z} \bar{O} \bar{d} \bar{Z} \bar{L} \bar{P} \bar{Z} \bar{f}$   $\bar{Z} \bar{U} \bar{L} \bar{f} \bar{h} \bar{J} \bar{A} \bar{L} \bar{P} \bar{Z} \bar{I} \bar{A} \bar{P} \bar{U} \bar{f}$   $\Sigma$   $\bar{Z} \bar{f} \bar{P} \bar{d} \bar{z}$   $\bar{O} \bar{S} \bar{I}$   $\bar{A} \bar{O} \bar{f}$   $\bar{O} \bar{d} \bar{Z} \bar{f}$   $\bar{I}$   $\bar{u} \bar{!} \bar{g}$   
 $\bar{L} \bar{P} \bar{f}$   $\bar{I}$   $\bar{A} \bar{O} \bar{f}$   $\bar{O} \bar{L} \bar{f} \bar{A} \bar{I}$   $\bar{A} \bar{O} \bar{f}$   $\bar{y} \bar{A} \bar{U} \bar{f}$   $\bar{Z}$   $\bar{T}$   $\bar{f}$   $\bar{I} \bar{A}$   $\bar{U} \bar{h} \bar{A} \bar{h} \bar{R} \bar{f}$   $\Sigma$   $\bar{Z} \bar{f} \bar{P} \bar{d} \bar{z}$   $\bar{O} \bar{S} \bar{Y} \bar{A}$   $\bar{G} \bar{I} \bar{f}$   
 $\bar{I} \bar{A}$   $\bar{G} \bar{I} \bar{f}$   $\bar{I} \bar{S} \bar{f}$   $\bar{O} \bar{S} \bar{D} \bar{P} \bar{Z} \bar{O} \bar{K} \bar{I} \bar{U} \bar{h} \bar{J} \bar{I} \bar{A}$   $\bar{Y} \bar{A}$   $\bar{G} \bar{I} \bar{f}$   $\bar{I} \bar{u} \bar{I}$   $\bar{f} \bar{z} \bar{p}$   $\bar{O} \bar{u} \bar{S} \bar{f} \bar{A} \bar{Z} \bar{h} \bar{p} \bar{T} \bar{f}$   
 $\bar{O} \bar{S} \bar{D} \bar{P} \bar{G} \bar{Z} \bar{Z}$   $\bar{y} \bar{f} \bar{Z} \bar{d} \bar{z} \bar{L} \bar{P} \bar{Z} \bar{f}$   $\bar{Z} \bar{f}$   $\bar{I} \bar{S} \bar{Z} \bar{d} \bar{z}$   $\bar{!} \bar{g} \bar{K} \bar{f} \bar{N} \bar{J} \bar{G} \bar{f}$   $\bar{Y} \bar{A}$   $\bar{G} \bar{I} \bar{f}$   $\bar{A} \bar{o} \bar{L} \bar{P} \bar{d} \bar{z} \bar{K} \bar{G} \bar{N} \bar{G} \bar{f} \bar{A}$   
 $\bar{O} \bar{S} \bar{y} \bar{A} \bar{U} \bar{f}$   $\bar{y} \bar{T}$   $\bar{G} \bar{f}$   $\bar{N} \bar{R} \bar{L} \bar{O} \bar{S} \bar{D} \bar{P} \bar{G} \bar{Z} \bar{Z}$   $\bar{y} \bar{f} \bar{Z} \bar{d} \bar{z} \bar{I} \bar{A} \bar{O} \bar{f}$   $\bar{I} \bar{D} \bar{Z} \bar{h} \bar{p} \bar{Z} \bar{A} \bar{u} \bar{I} \bar{f}$   $\bar{L} \bar{G} \bar{K} \bar{u} \bar{d} \bar{z}$   
 $\bar{A} \bar{o} \bar{L} \bar{K} \bar{G} \bar{N} \bar{G} \bar{f} \bar{A} \bar{I} \bar{A}$   $\bar{G} \bar{I} \bar{f}$   $\bar{I} \bar{S} \bar{f}$   $\bar{L} \bar{P} \bar{d} \bar{z} \bar{u} \bar{f}$   $\bar{O} \bar{u} \bar{S} \bar{I} \bar{A} \bar{Z} \bar{h} \bar{p} \bar{R} \bar{f}$   $\bar{I} \bar{h} \bar{O} \bar{Z} \bar{y} \bar{O} \bar{f}$   $\bar{u} \bar{o} \bar{k}$

İ Ąĳf ýĀŮf 2 T If + Ąĳf Ąĳf (410) Lĳf Ąĳf + Ąĳf Kĳf Ąĳf Ąĳf Ąĳf  
 Ąĳf (25) Dĳf (45) Lĳf Ąĳf Ąĳf Lĳf Ąĳf (209) Ąĳf (210) Dĳf  
 . + Ąĳf (20)

Σ 2ĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 K2ĳf Ąĳf . + T T Pĳf Ąĳf Ąĳf Ąĳf Lĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 Kĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 . Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf

3 Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf (2004) Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 + Ąĳf Kĳf . + Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 Ąĳf Ąĳf 3 Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 Lĳf Ąĳf 2002/2001 Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 + Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf  
 . Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf Ąĳf



LjZU6fjZFNjHlGdXNjZSäpdLJzTfjÄYÄGfU6fjZöqk  
.LjZäZULjnjÄ

:ÖǪžž !gKĜfzpf ljkNjNŁJKQŽk pÄ

[illegible]

Učija ža Āodžā Gīghu | Āf KĀfjapf Lj + Āf fĀfjapf KĀfjapf  
Ljžžā dždžl dž džō Dmō Lj hōj Njph Āf Āf Njph Āf Āf  
KĀfjapf U zhā KĀfjapf Āf Āf Āf + Āf hōj dž Kōūf KĀfjapf  
Āf Āf + Āf Āf + Āf KĀfjapf dž Lj Āf Āf 2PDKĀf Āf Āf  
Āf Āf Āf Āf + Āf Āf fĀfjapf āznd Āf (2002) Āf 2dž fĀfjapf  
Āf Āf Učija Lj + dž dž KĀfjapf U zhā KĀfjapf Āf Āf  
fĀfjapf Āf Āf Āf fĀfjapf Āf KĀfjapf Āf (1998) + Āf Āf fĀfjapf  
(1995) Āf

† !@f ýT đf

# L & QUEN jhāpuf

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.











)  $\text{Gfj25fZÄ!fzdÄlfö} + \text{P} \text{ LKfZDLjödž f2cÄur } \text{ÖÄ. NjökGdž}$   
 .(25

### **:həfəfİ fəf fə**

:+həfKdžf f2pf Öf KfLdž|ofDž

+lž ĩ  $\text{ZŽDfDfÄ} + \text{Kf} + \text{fzdžf} \text{Kf} \text{ýdžYf} - 1$   
 $\text{Kf} \text{ýdžZDž} \text{ö} \text{Üf f2pf} + \text{Lž} \text{UžP} \text{LjdžZÜÜf}$   
 . (0.88)  $\text{Kf} + \text{L} \text{ÜÄ} (0.82) \text{Džf} + \text{L} \text{Ü}$   
 $\text{Yf} \text{oh} \text{!Ä} ( \text{Test-Retest}) \text{Zf} \text{f} \text{fZg} + \text{ZÜÜ} \text{f} - 2$   
 $\text{ÜdZÄGdž} (30) \text{LjdžÄ} + \text{džlž} \text{ZÄ} \text{Zhu} \text{f} \text{ýdžZ}$   
 $+ \text{L} \text{f} \text{Z} (0.80) \text{Nj} \text{KZDž} \text{Üf} (7) \text{Njdž} \text{ýÜ} \text{GÄ}$   
 .  $\text{Kf} + \text{L} \text{f} \text{Z} (0.83) \text{Ä} \text{Üf}$

### **:həfəfİ fəf 4.3**

Kžf  $\text{GfZÄ} + \text{f} \text{f2pf} \text{yödžf} \text{fÄ} + \text{f} \text{f2pf} \text{ÖfDž} \text{f} \text{Ljdžf} \text{f}$   
 :fžf Öf + fəf KfZfžf  
 $+ \text{lž} \text{fZDž} \text{Z} \text{Z} \text{Kf} \text{f} \text{Ä} \text{Džf} \text{Öf} \text{f} \text{ýdžÄ} - 1$   
 $\text{Kou} \text{Ä} \text{Üf} \text{f} \text{KfZg} + \text{f} \text{Üf} \text{ýh} \text{Ä.} + \text{Üf f2pf}$   
 $\text{Lž} + \text{f} + \text{gÄ} \text{Üf f2pf} \text{f} \text{Ljdž} \text{f} \text{Ljdž} \text{džZÜf}$   
 .  $\text{KfZg}$   
 $\text{GdžZÄ} \text{Kf} \text{f} \text{Ä} \text{Džf} \text{Öf} \text{f} \text{Ljdž} \text{ýdž} \text{Dž} - 2$   
 .  $+ \text{f} \text{ZÜf} \text{g}$

### **:həfəfİ fəf 5.3**

:+Džž KfZžž. 1

(İ  $\text{fZf} \text{Ljdž} \text{dž} \text{f} \text{Ä} \text{ÖZg} \text{f} \text{YÄf} - 1$

## 1.3.2. SPSS 19.0.0.0 (Σ Αλγόριθμοι)

1.3.2. SPSS 19.0.0.0

αλγόριθμοι (Σ Αλγόριθμοι)

Σ Αλγόριθμοι

Σ Αλγόριθμοι

Σ Αλγόριθμοι

### 1.3.3. SPSS 19.0.0.0

1.3.3. SPSS 19.0.0.0 (Σ Αλγόριθμοι)

Statistical Packages For ) SPSS 19.0.0.0 (Σ Αλγόριθμοι)

1.3.3. SPSS 19.0.0.0 (Σ Αλγόριθμοι)

. SPSS 19.0.0.0 (Σ Αλγόριθμοι)

SPSS 19.0.0.0 (Σ Αλγόριθμοι)

SPSS 19.0.0.0 (Σ Αλγόριθμοι)

. SPSS 19.0.0.0 (Σ Αλγόριθμοι)

. SPSS 19.0.0.0 (Σ Αλγόριθμοι)

. SPSS 19.0.0.0 (Σ Αλγόριθμοι)

SPSS 19.0.0.0 (Σ Αλγόριθμοι)

SPSS 19.0.0.0 (Σ Αλγόριθμοι)

2-WAY ANOVA SPSS 19.0.0.0 (Σ Αλγόριθμοι)

. SPSS 19.0.0.0 (Σ Αλγόριθμοι)

## ١٤٤٤ هـ ٢٠٢٢ م

١٤٤٤ هـ ٢٠٢٢ م  
 ١٤٤٤ هـ ٢٠٢٢ م  
 ١٤٤٤ هـ ٢٠٢٢ م

١٤٤٤ هـ ٢٠٢٢ م : ١٤٤٤ هـ ٢٠٢٢ م

١٤٤٤ هـ ٢٠٢٢ م  
 ١٤٤٤ هـ ٢٠٢٢ م  
 ١٤٤٤ هـ ٢٠٢٢ م



[illegible]

: 3!f yÄnlf Lpžöf Nf!f üPřf Dž  
 äÄodžÖK GÄžž 2 T Äh|Džž Kf2lf LP(4) Dž yÄnlf Lpžùoüö  
 ŽPŮ+HfÄž+řo Ä+řp Ä GÖPŮf LpžöGÄ+oöT GñY Ä G!f UGñž  
 ýŮP äÄodž+LafÄž|Džž Kf2lf Ä Üöž KfÄ+džžGñÄ Kfñř üdž

[illegible]

) +ǫǫ og+!Ů̂ KfRž Ā25|| ŒjȳNj:Öǫf ýřđ !Ġ|Đžž Nřđ  
+ĐžđYĂ Ġf Wđđž ĀodŽŁđžž KfzđkKĠ Ąđž05( α =<0.05  
YĂł)ŲZđžŮf YĂłĂ Őđž ýNdž ĭ zđkdž äzzk đđž +đ đŮf  
.đđžýzđđĂ (ŲZđžŮf

Kf20KkLmWfaſ ýdžđčř o5Džř! f jRjLjZ tùGú!  
 žč +čř ŃĀ(0.112) Nčř Kłř pǻ ŮĀoLDřřřǻ ěĂř oDŽř džř  
 TWO - Čřř Lřř řýořĐřřř ř Đř !R Ů Θ>0.05) řř řřřřřř  
 Lřđžř Křčř KĞ ĄđĐ5Ā25ĤňĀŁř 2 TùřĐŽWAY ANOVA







YÄlf İ Zöf dZ Ljy ZGÖÖ (0.05 > Θ) +Öf ùogtù!Üpİ RZùf fÄñÄ.3  
 +Öföf KÖÄ ÄdZ (8) DZ ýÄñf Ljhu ÜÖùdZ ýNj dZ Ä ÖùZGñÜf  
 YÄlf İ Zöf dZ ZGÖÖ Lj dñKf KÖÄ ÄdZ KfZÖR +Öf dZ KÖÖ ùoLj fÄ  
 . ÖdZ ýNj dZ Ä ÖZGñÜf

### (8) !f üñu

İ DZ fÜDZ j YDÜEUNfä fDZÖÖ DZÄf fÖf LjE NpZ

| Z fZöLj f |     | Ü Äf  | YÄlf        |        |
|-----------|-----|-------|-------------|--------|
| İ ZGdZ    | fZf | Öföf  | ÖdZ ýNj dZ  | ÖZGñÜf |
| 0.030     | 6   | 4.137 | ydñdZÖÖ ZÄf | ZÄR    |
| 0.310     | 33  | 2.871 | Σ ÄZÄGhu    |        |
| 0.543     | 39  | 3.066 | ZÄRf        |        |
| 0.076     | 6   | 4.255 | ydñdZÖÖ ZÄf | + Öf   |
| 0.240     | 50  | 3.660 | Σ ÄZÄGhu    |        |
| 0.294     | 56  | 3.723 | + Öf        |        |
| 0.525     | 95  | 3.453 | ýH +LZf     |        |

KÖÖÖZñf ZÖf DZ f Öf!Öf ! ZÄZf KÖÖ Öf KÖÄ ÄdZ fÖÖÄ  
 :+Öf NÖf Lf (9) DZ ýÄñ 2 T† pÄ+ÖZñf  
 +!Üp KfR ZÄZfÄ .D  
 (0.05 > Θ) +!Üp äÄf dZ +Öf og  
 +Öf dZÖÖ ùdZ Lj dKÖÖ dZ Ljhu  
 LjZ Lj dZÄ (4.255 = Σ) ydñdZ  
 (2.871 = Σ) Σ ÄZÄGhu!f +ùdZ

+!Üþ KJR ʒ Å25fĤĦȧ .Ÿ  
(0.05>Θ)+!Üþf äÄŕ dŁz +ǫf ùσg  
yčŕdžř+ǾDŽŇpŁDžLjžŁŁžžŁŋ  
+DžLjđžKĞdžžĲ(4.137=̄Σ)  
αǫ!Ă (3.660=̄Σ) ΣĂǟǺǫfŋ  
.yčŕdžř+ǾDŽŇpŁDžLjžŁŁžž

# hudební představení

| $\mathcal{L}_{\text{AdZ}}$<br>$\Sigma \tilde{\mathcal{A}}\tilde{\mathcal{A}}\tilde{\mathcal{G}}\tilde{\mathcal{H}}$ | $\mathcal{K}_{\text{GZ}}$<br>$\Sigma \tilde{\mathcal{A}}\tilde{\mathcal{A}}\tilde{\mathcal{G}}\tilde{\mathcal{H}}$ | $\mathcal{D}_{\text{PLAdZ}}$<br>$y_{\text{rdz}}\mathcal{D}\tilde{\mathcal{Z}}$ | $\mathcal{D}_{\text{PKGZ}}$<br>$y_{\text{rdz}}\mathcal{D}\tilde{\mathcal{Z}}$ |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| *1.3841                                                                                                             | *0.5954                                                                                                            | 0.1183                                                                         | 0                                                                             |
| 1.2658                                                                                                              | *0.4771                                                                                                            |                                                                                |                                                                               |
| 0.7887                                                                                                              | 0                                                                                                                  |                                                                                |                                                                               |
| 0                                                                                                                   |                                                                                                                    |                                                                                |                                                                               |

Lřč ĀđŁŁł Łŕf DžDŽŮf ýλdž+Łoũďž

---

$$0.05 \geq \Theta^*$$

## 1. 安装与配置

Ödzk Gfj Gzi DZ Lgi HfA+ !Gf yf uif LjZ +uhGf!  
 ÜjDZdZjHnjÖ5NjZpKÄoLjZj+q Gfj +DZDZÄ Gf uGfjK GzZ  
 (K) DZ+ZGdZK GZoljJfA+Gf K Gf ÄdZ uJPR Gf uoGf KùdZ  
 NjZpKÄoLjÄ Gf Ödzk Gfj +szdk Gfj +LjGf Kfj5yüdz!  
 .(10) yÄGfj Ö5LjDZjGfj+DZdZjHnjÖ5

(10) !göNtjü

၂၀၁၆ ခုနှစ် ဇူလိုင်လ (၁) ရက်နေ့ နံနက် ၈ နာရီခန့်တွင် နေပြည်တော်  
 လူမှုဝန်ထမ်း ဝန်ကြီးဌာန၊ ဝန်ကြီးရုံးတွင်

[illegible]

[illegible]

| Table 1. Mean number of correct responses (SD) for each age group and condition |              |             |           |
|---------------------------------------------------------------------------------|--------------|-------------|-----------|
| Age group                                                                       | Condition    | Mean (SD)   | Range     |
| 5-6                                                                             | Control      | 7.66 (0.99) | 3.78 - 24 |
| 5-6                                                                             | Experimental | 5.65 (1.15) | 3.66 - 25 |

[illegible]



[illegible]

:yŋa!f ýŋa !ŋa|~~ŋa~~ŋa!f

ÖdžžKŇfj Ő5( α =<0.05) +ŉŋ σ†!Űp KJRž Ā25|| ƏijyùNj  
ĩ Dř !găzżkĚŹ+č ĞŮf +Džďž Ő5YĂ Ğf uŊidž žpk ĄoLYĂ Ğf  
ÜöžžŽDžžýNdž ÜőZĞŋŬf YĂŬf) ÖüzĞŋŬf YĂŬf!ĩ žùğkdžŁudž  
HĞžžýZĞfĂ

[illegible]

(11) !göNtjU

f Nj Q E 2 ě p h N d Ů ž y ž ě J f u ů ě j z e ě d ě j f e ů ě i e λ z d ž

| č     | č     | č     | č | č     | č     |
|-------|-------|-------|---|-------|-------|
| 0.122 | 2.432 | 0.408 | 1 | 0.408 | 0.122 |
| 0.421 | 0.654 | 0.110 | 1 | 0.110 | 0.421 |
| 0.779 | 0.079 | 0.013 | 1 | 0.013 | 0.779 |

|       |    |        |      | Číslo | Název |
|-------|----|--------|------|-------|-------|
| 0.168 | 91 | 15.249 | ČPif | Číslo | Název |
|       | 94 | 15.779 | YAdz | Číslo | Název |

Ö5(0.05 < e) + q og + !Üp KfR 3 Ä25pÄÄ Dž (11) Dž ýÄm!f Lpž pö  
Ä Ödz ý Npž Ä ÖZGž Ůf YÄlf i Zg dž pž Ü ä z k Lp džž K G Npž  
. Gžž ý ZGž  
. K G Äž džž ZGžž K G Lpž Ä + pö!f K G Ä dž (12) Dž ýÄm!f Lpž

**(12) !ḡũṅḡu**

1. **INDUĀRIJĀS UN ĒKĀRĀBŪVĒS VEIKALU ĒKĀRĀBŪVĒS**

[illegible]





Yl 6Ā Üt ħf Y! Ġf DĀZÖZfĀ ÜLafĀdĀ + ħ ħoĀ Ü|ö ħĀ ÜoöüT  
 . ydĥdĀ f2f KĠĠöĠöĤĀ ÜÜĤdĀ ÜNj + qĥdĀ 2 T If äĀ dĤ

LĥdĀZf2ĥKLĠ ÜÜĠdĤ äĀodĤö! Ġf Kf2ü ħf ĩRüNjLj dĤZü! ĠĀ  
 zĤhÜĠdĤĤĀÜf 3 dĤĠ ĠĀ dĤĤĥĀĀodĤ Ĥ P + üĤ! KĠdĤĤĀ  
 LĤĤĀ + ö YĠÜĤĀ YZf ĠĤZf + dĤdĤZĀĤ YĀ Ġf ÜĠdĤĤĀodĤ  
 ĤRj ÜĠdĤzĤĤÜZĀur LĤĤöDĤjÖzöĠZĤ ĀdĤĤThj! RĤÜÜĠdĤ  
 .ZĤf

äĀodĤzĤhĤ dĤ!gĤÄzö+Ü ĀdĤ Kf2ü Ġf ĤĤYĤf Lf + ħoĠ äZüĤĀ  
 ýĠdĤÖ YZf ÄYĠÜĤ ĠĤZf LĤZ Ĥ dĤdĤZĤĤ YĀ Ġf ÜĠdĤdĤ  
 LĤĤö ĠZf + Ġ ĠÜf + DĤdĤĤĀ Ġf ÜĠdĤĤĀodĤÖT ĤĤĀ ÜYĀ Ġf  
 .ZĤÜÜ ħĠöĠ ħĠ ÜöU ZöDĤĀĀodĤĤNj

LĤöDĤjÖzöĠZĤKĠĀ ĀdĤU zhĤZĤK|| ĠNjLĤĤöDĤjÖĠf 3 dĤ  
 .ZĤĤf ĤNjLĤZ ĠPĤĀ ÜĠdĤ äĀodĤzĤdĤZĀur

ĤZĤK|| ĠNjLĤYĀ Ġf ÜĠdĤ dĤZ ĠĤÜ ýÜP LĤĤ + ħoĠ äZüK  
 + Ġ ĠÜf + DĤdĤ ÜĠdĤĤĀodĤLĤ YĀ Ġf KĠĀ ĀdĤU zh! ĠüfĤĀ  
 ĤNjZ ÄT LĤZ T! ĠĀ ĀdĤU ZöLdĤĤ ÖNjDĤydĤNjÜĠZ  
 ĤNjZ ÄT LĤZPĤ2 T ÖYĀ ĀdĤZ ĤjU ZĤNjDĤEnĠ + DĤdĤ  
 ÖT ĤĤĀ ÜÖT If + DĤdĤYl σ üĠZöüTĀDüĠZĤ ĀdĤThĠDĤDĤdĤ

.KĠĀ ĀdĤU zhÖZĤĤf ÜöĠ ĠZf + Ġ ĠÜf + DĤdĤ ÜĠdĤĤĀodĤ  
 + ħoĠ äZüĤZf 3 ÄZf +Ü ĀdĤĤhÖZföÜĠdĤ LĤZPÜf 3 dĤĤĀ  
 + DĤ LĤÜZf 3 ÄZf ÜĠ ħYĤThĀ ÖZföYĀ Ġf ÜĠdĤĤĀodĤLĤĤ d  
 U zhĤĀodĤU ZöT ö ÜĤ ĀdĤĤKĤ dĤZf ĤNjKĤZö ĤÜ5|| Ĥü!  
 İ dĤZ T If + DĤZöĤ + qĥdĤ + ÜTÜf KĤÖNĤýĠdĤýö İ üdĤZÜTÜÜf  
 LĠf İ ĀRĀÜĤ ĀdĤĀÜĠf LĠf İ ĀR + DĤ ĤĀ ÜĤĠ dĤ üP  
 . +Ü ĀdĤKf2üKĤ dĤKf2f ĤNjKĤZö || Ĥ ÜĤZĤÜf İ Ĥ ĀÜĤdĤ



Ö5þ Å25þñÄÄ ydñdž+ðŽÄþðŽ dž LdžÄþf Öf !Ä Σ Ä2Äñþ+ðž  
 Σ Ä2Äñþ+ðž Ldž ÄñÄ ydñdž+ðŽÄþðŽ dž Ldž Gñf Kfžðñk  
 þÄ2þ Ö5Yñf Ldž ðþ ä2Ä ydñdž+ðŽÄþðŽ dž Ldž Äñf Öf !Ä  
 þ2ðð+ Äñf Öf !Ä Σ Ä2Äñþ+ðž LdžÄþfÄ+ Äñf KfžðñkLñh  
 Lñfðð+ððfÄf T oðžur of þž äÄodž Ö5Gðž2þf+ Äñf LÄ!  
 LñfÄ ý|of Ö5Lñ Pdž LðTðž T lñþðGðžññ ýùT fñ þð  
 þñÄ f2ÄYñf Ldž ðþ ä2Ä ü þf+UððÖ5ððÄ+ððf Kðððž  
 +ðž Ldž ÄñÄ ydñdž+ðŽÄþðŽ dž LdžÄþf LñKfžðñf Ö5þ Å2ù5  
 LÄ !gþÄ2ðð ydñdž+ðŽÄþðŽ dž LdžÄþf Öf ù!Ä Σ Ä2Äñþf  
 Nñdž Ö5+T T PdžKððdžÄzP þpydñdž+ðŽÄþðŽ dž LdžÄþf  
 LdžGðžññÖ5l2þ 2þf Lñññk+ðþ Lñññ Nñdž Äñ äÄodžÄ  
 ä2ÄÜKððdžññýñž 2þf LñYÄ Gñf ðžLñ þðÖññf+ Gñf  
 +ðŽÄþðŽ dž Ldž Äñf Kfžðñ Ö5þ Å25þñÄÄ f2ÄYñf Ldž ðþ  
 +ðŽÄþðŽ dž Ldž Äñf Öf !Ä Σ Ä2Äñþ+ðž Ldž GñfÄ ydñdž  
 Σ Ä2Äñþ+ðž Ldž Äñf KfžðñLñþ Ä2þ f2ÄYñf Σ ùð ydñdž  
 ððð dž Ldž Äñf LÄ Ö5ýññÄ ydñdž+ðŽÄþðŽ dž LdžÄþfÄ  
 Nñdž Äñ äÄodžÄ Nñdž Ö5+T T PdžKððdžÄzP þpydñdž+ððž  
 Lñ þðÖññf+ Äñf LdžGðžññÖ5l2þ 2þf Lñññk+ðþ Lññññ  
 . Kððdžññýñž 2þf LñYÄ Gñf ðž  
 þñÄ Ö5Kfžðñf Ldžñ Nñ ydžðGñf fñfðñf NñKùñf þñÄ  
 Öðžýññdž !gäzñLððž Kfžðñ Ö5+ðð ùog+ù!ÜþKñþ Å2ù5  
 ||!Ä(1998) +ðñÜ fñfð Ö5Gñ ydñdž+ðŽÄþðŽ dž Öf !Ä Lðððž  
 . YÄ Gñf UññžÄÄodžLñ Σ þðÖñf+ððð2 þññ ððžýññdž Ö5  
 þððð(1995) Ö2þ Nñ ydžðGñf fñfðñf NñKùñf Gðž  
 . Gñýñž þžÄÄ Gñf2þÄ Nñdž KññÄLž Kððž G 2

K2njDÖrf (1998) +o5iU NfEjyðöGf f f2pf NfEJkùur 2GkÅ  
ÖZGfñŮf YÄLjÅ ÖdžýNfDžžzsk+Gf ogt!Ůp KfR3 Å25pÀnĀ Qñ Z  
.+džGfĀT hufjŮ ĭ džž

Ä(1998) ÖÖf f jz Nf JdžöGf f jzf Nf Ku zGk Gdž  
Ljnf dž ýhpLž+zgEdKJčK Lf jzf ZnjkDž ö (2004)Öü!Gdž  
ýhpLžzgEdKJčK+öGf f jzf Kznj Lj ÖÜpžž äÄodž ÄüσLj  
.Ljžžž

**2.5**

K6ZzÄ ÖdzÄ K6fj Gz + !öf ýd |6|DzZj N6fj +Tüpfjz  
 P+DZdz |HjÖ5Nj 2fkÄoL6Zj+ö fÜf +DZdzÄ 6f U6fjz  
 U ÄdzöG Kf2fkĩ DZKzG fÜf Kf2f5yöZ LjN6fj K2njD  
 +u PlgKf2fkĩ DZKzG Kf2f5yöZ 6Ü5Ä5GZ(3.21) Öföσ  
 DZdzöHj ýüZf +|DZj Kf2fj ÖNÄ.LjP GZ(2.74)Öföσ U Ädz  
 YÄ 6f Σ 2fkÜöZ Üf 6f ydz 2GK6fD !öyÄ Ä6YÄ 6f Ö5  
 +Gf İ !öK6fDjÄ l6njÜf +n6 YhÄ ÜZdzLjPj 2 ÄZüf ýÜ Öü5  
 f6j ýH YÄ 6f Σ 2fkYDZÄ Ü T öf LjZö Y6r 2dZüdz 6üoÄ  
 .äZPÜf fÄ6fL6fDZ6f

[illegible]

KpĀĭ DŌ5l2nĭŬf ĭ DZŷođf + HŌDŌžŏNĭfĭLĀù†! + ŌDŽ Ŭf ĩ T ùoĭf  
YŌŕ Ō5l2dĕ dZĭLŌ ĭ ĭf KŌŋdŭĀ l2nĭŬf + ħŌ Y ħŭkŭpĀ ŬNĭŬŏ  
DŌŽ YĀ Ğ Ō5ĭ 2ŏđ Ō5ŋĀŏŬ Ğŏž + T ŌĀĩ T ùoĭf LĭdZùŌ  
Σ ŏŕkĀoLĭ ŌŋŏKŌŋĭf LĭdZŏž āβ NĭjŷĀĭf LĭdZŏž ŷ†ThĀ . ZùĤDž  
. YĀ Ğĭf ŬŌŋĭžĀĀodž

+!Ŭp KĭŕžĀ25|| ŌĭjŷNĭ: yĥ2f ŷŕĭ !Ōŭ|Dŏž NŌŭfĭ + Tùŕŏž 2  
ŬŌŋĭž ŏŕkĀoLYĀ Ğĭf ŌùdZŏKŌŋĭf Ōù5( 0.05 >Θ) +ŷŕ ŭŏg  
ŌZŌŋŬf YĀĭf ĭ 2ŏđZĭđ Dĭ !gāzŕkŌŭž†ŏ ŌŬf +Dŏžŏ Ō5YĀ Ğĭf  
ŌŋŷŷZŌŷĀ ŬŌŏžŏžŷŷNĭđŷ ŬŌZŌŋŬf YĀĭf)

+ŷŕ ŏg†!Ŭp KĭŕžĀ25ŕĀĀ Dŏž yĥ2f ŷŕĭ !Ōŭ|Dŏž NŌŭfĭ K2ŋĭD  
Ō5YĀ Ğĭf ŬŌŋĭž ŏŕkĀoLYĀ Ğĭf ŌùdZŏKŌŋĭf Ōù5( α =0.05)  
YĀĭf ŌZŌŋŬf YĀĭf ĭ 2ŏđZĭđ Dĭ !gāzŕkŌŭž†ŏŭ ŌŬf +Dŏžŏđ  
. ŌŋŷŷZŌŷĀ ŬŌŏžŏžŷŷNĭđŷĀ (ŌZŌŋŬf

āzŕk†ŷŕ ŏg†!Ŭp KĭŕžĀ25ŕĀĀ Dŏž Ō5Yĭf LĭŕŏŌŷ āZùĀ  
YŌŕŏ Ŭf ŕŏĀ ŷŏđ|| DŏžŏZŌŋŬf YĀĭf ŷ† LĭŬŌZŌŋŬf YĀĭf ĭ ŭ!g  
Kĭ2Āŕf Σ ŷĭjŷŕ PŏLŏZŌŋŬf YĀĭf ŷ† LĭDŏž ŬāĀodžŕŕNĭΣ ŏŕŭh  
Yĭf ŌŭLŏZŌŋŬf YĀĭf ŷ† LĭŕĀ25ŕĀĀDĀ!R†ŏŭŷ ŷŒŌŭđĀ  
ŷŏđ LĀ! ŕĀŏŌŏžŷŷNĭđŷāzŕk†ŷŕ ŏg†!Ŭp KĭŕžĀ25ŕĀĀ Dŏž Ō5  
+ŷŕf ŕ25ŷŏđ LĭDŏž ŬĀ Ğĭf Ō5ŌŷŷŷNĭđŷĀ†Dŏž Lĭŷŷf ŕ2ù5D  
LĀ†Dŏž ŏ Dŏž 2ŏŭLĭf ŕ25ŷ† ŏ LĭŷŷK2 Ā2Ŭf Σ ŷĭLĀŷŕ ŭPŏ  
+ŷŷĀĀŷŏđf Σ ŷĭLĀ 2ŌŏDŷ ŬŌŷK†ŏž Kĭ2ŕĭf Σ ŷĀ āĀŕ đŷ Σ ŷĭ  
ŌŷNŷŬŌŋĭž āĀodžĀŏŌŌŕ 2 Ā2Ŭf LĭŷŷŷNĭđŷĀŕĀĀ Lĭŷŷ ||!R  
Lĭŷŷŷŷŷŷĭ !gāzŕk†ŷŕ ŏg†!Ŭp KĭŕžĀ25ŕĀĀ Dŏž ĭ !g†ŭŷŷŷ  
ŌZŌŋŬf YĀĭf Kĭŷŷŷŷŷŷ! āzŕkžĀ25ŕĀĀĀ Dŏž Yĭŷŷf ŕĀŷŷ5  
Lĭŷŷŷŷĭ !gāzŕkžĀ25|| Ōĭjŷŷŷŷ Lĭŷŷŷŷ ŬŌŏžŷŷNĭđŷĀ  
. ŌŏžŷŷNĭđŷĀ ŌZŌŋŬf YĀĭf



yčř Ů Ā Σ zřdř ýřř Ÿ Ā Ğř uđđžž đř Ů Ÿ Āř .1  
 .ýřđđř

† ōhčřč Ğř đđř + đđř Ÿ Ā Ğř uđđžž Āđđžňđđ  
 :

lđđđđř đř ō .D

† đđř đ Āđđž

čđđž Kđđř đđđ .Ÿ

ýřř Ů Ÿ Ğř Ā Ÿđř

U' zhđđřklđđ đřř .u

Kđđř Āđř

Lđđđđđ Ÿ Ā Ğř Σ đřklđđ Ÿ Ā Ğř Kđđđž đđđž đř.3

Ÿđđ

.ăđđř đđđž đřđđđđđđ đř řř Ÿđđ





|| Ädzf + zdqÜZÄTlgZöc Zöc nGz!GZ Ü NjvqfNjvqfNjvqf .pazü

2023 27p Üv Üyafİ 2 fofpNpİ (1991) Yf f3 ÜöPhoYKfā Üpā  
.LgÜyāÄfÄ 27pŽ

f NjvE! &pe E(2003) zčſýpž Üĩ ÅGđ !f Ý ðuđđ KřÀñ Üřđŭt  
.Lřđŭř: Lřđž ÜyčÄřfÅ žTŭđžÅžTřř žřđ Ů ŮŮL řđŭñj

L JFJUEÄP İ YBÜİUNPÄJ DƏHEnNə QƏPE(1993) Dö ÜpəTù:f  
zə zə nđž!G2 ÜDqŨEİ ž hñÑHhEDĐŨnğ||L JfOT JfđENjEdž  
.pəf Üll Ädzf +zdň ÜL2ÄTLgž

2f ÜhÜf 3ÜHÜf (1997) 3ÜhÜf Üf

12Nf : yč ĀřĀ 2TŲŽolž

[illegible]

Ö5+qPř dž Y Ā Ğ!f KĜndhDk(1998) DžƏ ǎpDĚĚ ǎY ŪnƏǎU  
 ĞǎoLjDĚĚĜǎ Y Ā Ğ!f ÖDžZULjnjĀ Lpž2PŪf +ǎǎf 2 Ā5 !f  
 .ǎYŪpNǎĚhyǎŪYnjdǎ3 řteUǎĚ ǎ Ū

I z ! Ĥ H E Ä F f N j e i ü o p q ſ u ! n t (1988) † R S g ā n f b z l ò u c w y  
. p r f Ü Ä ö f + z d ä ü å Å T g ž ç z ô η G ž ! ē Z Ü h j ſ Ũ s p o m Ž

Üöüß + Hpdž Ů Ů z 2012 Jioſſſ (1983) fæù ÜÜjæùſß ſuZ  
.Köſſſ

**YONJNDĀ Ĩ HĒf NjJEFLDŽNGdžŲEL JFJUE(1992)ZnŲjŮ Äüzřf**  
**ŬfCHehuzEDŽz ĩ z E ŬE! ĨHEHEDŽz PLYE T-!! ĨHNjŲHE**

.LgZ ÜöqPüf +zdzf Ü2ÄTlgZö 2öŋ ŋGZ!G2

Üy kuf dā zfb ü1 U KiofEXNjzJef(1998)ı fngıřf fz üüüZ  
.U Ğf





Chen.(1986) Gender and Computer, Tthe Beneficial of Experience attitudes. **Journal of educational computing research**. 2(3),p 265-283.

Dori, y & Barnea , N.(1994). In Service Chemistry Teacher Training: the impact of introducing computer technology on teachers attitudes Thesis at department of Educational in Technology and Science teaching.(ERIC document **Reproduction Service. NO. ED 36946**)

Jegede, O.J & et al . (1990) .*Attitude to the Use of the Computer for Learning Biological Concepts and Achievements of Students in an Environment Dominated by Indigenous Technology*. (Eric Document **Reproduction service. No .ED 317401**).

Munger, G & LOYD, B.(1989) .Gender and Attitudes Toward Computer , Their Relationships to Math Performance. **Journal of educational computing research**. 5(2), p 167-177

Woolsely, T,N. (1985) . The Effects OF Classroom Experience with Micro Computers on Attitude Toward Use of Micro Computers in Education in Fair Fax County Schools, Virginia . (unpublished ph .D dissertation. University of Virginia), **Dissertation Abstracts International.47.(2).513A .**

(č 501)

hřní jní ě žf njei nžnēžni yā

+čǻŭ ġǻȦ ŦŦŦŦ ŦŦŦŦ ŦŦŦŦ ŦŦŦŦ ŦŦŦŦ ŦŦŦŦ ŦŦŦŦ ŦŦŦŦ  
 ŦŦŦŦ ŦŦŦŦ ŦŦŦŦ ŦŦŦŦ ŦŦŦŦ ŦŦŦŦ ŦŦŦŦ ŦŦŦŦ ŦŦŦŦ ŦŦŦŦ

# ! předž

**Ň I E**

Něčá Ěf + dážď žžžž !f

Yǎ Gǎi Wǒguó Àndiǎn kǐ ! gè rén jīn rì fēn fēn huāng dǎi

Jirij A Ć K G Z Č Ö D Ž 2 U L j n j Ā L j Ĥ Ź + Ċ Ğ Ů + D Ž d ž 2 Ą !  
+ D Ž d ž

) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040

NjokGzöfpüZ + ö LpXf2|5f + hUgž1

[illegible]

Kf2|5f 0Äur Ä.3

ਭੁੱਖ ਨਾ ਖਾਏ, ਗੱਲਾਂ ਗੱਲਾਂ ਕਰੋ .4

ă 2PK 6f2k + 0.5

řádků N hř. | Ego N | | N | d Nřt ü Břž

+ 7066

1202T If ä 2Th

| Ljđf Ār Ā   |       | ĠLjđf + pž |      | + ĀđžĠ Ġf  |      | Ljđf Ġ Lj                                                           | ! |
|-------------|-------|------------|------|------------|------|---------------------------------------------------------------------|---|
| ř3<br>ĠĠ Nj | ĠĠ Nj | ř3<br>ĠĠđž | ĠĠđž | ř3<br>ĠĠđž | ĠĠđž |                                                                     |   |
|             |       |            |      |            |      | Ō5KĠĠđž 2 Ġ ùĠĠ<br>ĠĠĠĠĠđž Ġ ĠĠđž<br>Ljđž Ġ!ĠĠ + ōđž Ġ<br>ĠĠPŪf     | 1 |
|             |       |            |      |            |      | Ō5KĠĠđž 2 Ġ ùĠĠ<br>ĠĠĠĠĠđž Ġ ĠĠđž<br>ĠĠđž ĠĠ ĠĠ ĠĠ ĠĠ<br>+ ōđž      | 2 |
|             |       |            |      |            |      | Ō5KĠĠđž 2 Ġ ùĠĠ<br>ĠĠĠĠĠđž Ġ ĠĠđž<br>2PŪ + ĠĠĠĠĠĠ + ĠĠ<br>KĠĠĠđž    | 3 |
|             |       |            |      |            |      | Ō5KĠĠđž 2 Ġ ùĠĠ<br>ĠĠĠĠĠđž Ġ ĠĠđž<br>ĠĠ ĠĠ + ĠĠ KĠĠĠ + ĠĠđž<br>+ ĠĠ | 4 |
|             |       |            |      |            |      | ýŪP LjĠĠĠ ĠĠ ĠĠ Nj<br>ž ùđž LjĠĠĠĠđž<br>ĠĠĠĠĠĠĠĠĠĠ                  | 5 |
|             |       |            |      |            |      | ýŪP LjĠĠĠ ĠĠ ĠĠ Nj<br>ĠĠđž LjĠĠĠĠĠđž<br>Ōđž ž ĠĠĠĠĠĠĠĠ              | 6 |



[illegible]

|  |  |  |  |  |                                                                                             |    |
|--|--|--|--|--|---------------------------------------------------------------------------------------------|----|
|  |  |  |  |  | <p>ydžăĂùodž Dž ùlǒ</p> <p>†ur ùùžzf ŮĂùŮPif</p> <p>ǦpZDŌùRf UǦjǹdž</p> <p>Džž†ǒzf lǧzĂ</p> | 15 |
|  |  |  |  |  | <p>KǦǦhăĂodž Ůhǒ</p> <p>†hǒž</p>                                                            | 16 |
|  |  |  |  |  | <p>ăĂùùodž Ůhǒùùǒ</p> <p>ydždžKǦǦǦǦ</p>                                                     | 17 |
|  |  |  |  |  | <p>LǹhăĂùodž LǧfĂùǒ</p> <p>Ÿùù!Ǧf KǦǦùfof</p> <p>ydždžKǦǦofĂ</p>                            | 18 |
|  |  |  |  |  | <p>2 fǹhăĂodž Ůhǒ</p> <p>lǧrj UǦjǹdž Σ žǹk</p> <p>†Dždž</p>                                 | 19 |
|  |  |  |  |  | <p>ăĂùùodžzžùùǒ</p> <p>†ǒùùzf KǦǦùdž</p> <p>ýǦdžŌù5†ǒhǹŮĂ</p> <p>ŸĂǦf</p>                   | 20 |
|  |  |  |  |  | <p>ăĂùùodžLǧž ùùǒ</p> <p>†ǹǒĂLǧKǦǦhǹk</p> <p>Ÿ!Ǧf</p>                                       | 21 |
|  |  |  |  |  | <p>Lǧž ăĂùodž yùǒ</p> <p>Ÿ!ǦDžžǧif lǧif</p>                                                 | 22 |

**INSTRUMENTS**

- 1

- 2

- 3

- 4

**INSTRUMENTS**

- 3

- 1

- 4

- 2

(f) 50PŽ

**HĤNĬENJŃ Ĩ žf NĴQFZ ĩřđ NĐDŽEYČŁ JĴULXYG  
!İEDDĚYÊƎIz G**

Ň I E

ÄöLŸ Å Ğ!f ÖdzK Ğŋf Σ Ğ! !g2 fŋk!f f2p Ğ2ŋTh ŋöŋp Dŋk  
 .ÖdzDŋöDŋDŋLŋhĞpüZÅ Ÿ Å Ğ!f t oŋöž öŋk

[illegible]

ă 2PKGf2pf + 0.5

řádků, které jsou vzhledem k tomu, že se jedná o

1206



|  |  |  |  |  |                                                                                                     |    |
|--|--|--|--|--|-----------------------------------------------------------------------------------------------------|----|
|  |  |  |  |  | <p>ljRjHdž džzT ō</p> <p><del>Dž</del> Dždž</p> <p>Kf2GjĀ KĀdž</p> <p><del>Dž</del> džzT dž</p>     | 8  |
|  |  |  |  |  | <p>Kf2GjĀ!Gf zĀŭ</p> <p>† ohĀ CĀ  R Ūf</p> <p>fjzP †nĀ Ĵdž</p> <p>YĀ Gf</p>                         | 9  |
|  |  |  |  |  | <p>YĀ Gf <del>Dž</del> Ldž</p> <p>†<del>Ō</del> dĀ zP</p> <p>ŌG Ō5GĀĀHf</p>                         | 10 |
|  |  |  |  |  | <p>Σ ǎfkLPzTD</p> <p>YzT YĀ Gf</p> <p>brj yHŭ !gUŌĀ</p> <p>zP</p>                                   | 11 |
|  |  |  |  |  | <p>Ō5YĀ Gf Σ ǎfk</p> <p>†Gŭ !f z ĀzUf yU</p> <p>ŊZdzLŊPj</p>                                        | 12 |
|  |  |  |  |  | <p>ljRj YĀ Gf Σ ǎfk</p> <p><del>Dž</del> ŌG† Dždž</p> <p>ydž zGk GĀD</p> <p>†<del>Ō</del> Ūf GĀ</p> | 13 |
|  |  |  |  |  | <p>ǎP YĀ Gf Ōdž</p> <p><del>Dž</del> l2GjĀHdž</p> <p>ĭ džGžŪĀ ŌHf</p> <p>Σ 5f</p>                   | 14 |

|  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |
|--|--|--|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|  |  |  |  |  |  | <p> <math>\text{f } \tau \sigma \text{LPZTD}</math><br/> <math>\text{t z\ddot{u}r d\ddot{y} \ddot{A} \ddot{G}f}</math><br/> <math>\ddot{A} \ddot{K} \ddot{p} \ddot{D} \ddot{Z}</math> </p>                                                                                                                                                                                                                                                                                                  | 15 |
|  |  |  |  |  |  | <p> <math>\gamma! \ddot{G}f \text{f} \text{f} \text{f} \text{f}</math><br/> <math>\text{I} \ddot{N} \ddot{O} \gamma \ddot{A} \ddot{G} \ddot{D} \ddot{Z}</math><br/> <math>\ddot{p} \eta \text{t} \ddot{A} \text{z} \text{r} \text{t} \ddot{D} \ddot{Z} \ddot{d} \ddot{z}</math><br/> <math>\ddot{O} \ddot{L} \ddot{R} \text{z} \text{f} \gamma \text{f} \ddot{A} \ddot{O}</math> </p>                                                                                                       | 16 |
|  |  |  |  |  |  | <p> <math>\text{L} \text{z} \eta \ddot{U} \text{f} \text{t} \eta \ddot{G} \gamma \ddot{U} \text{k}</math><br/> <math>\ddot{I}! \text{g} \text{K} \ddot{G} \ddot{O} \ddot{D} \ddot{H} \ddot{A}</math><br/> <math>\text{t} \ddot{O} \ddot{K} \ddot{A} \text{t} \ddot{L} \ddot{G}</math><br/> <math>\text{z} \ddot{O} \text{f} \gamma \ddot{O} \text{r} \text{z} \ddot{O} \ddot{L} \ddot{d} \ddot{z}</math><br/> <math>\text{f } \tau \text{o} \text{f} \text{L} \ddot{D} \ddot{Z}</math> </p> | 17 |
|  |  |  |  |  |  | <p> <math>\Sigma \ddot{O} \ddot{K} \ddot{K} \ddot{R} \ddot{O}</math><br/> <math>\text{t} \ddot{H} \ddot{O} \ddot{J} \text{I} \ddot{O} \ddot{J} \gamma \ddot{A} \ddot{G} \text{f}</math><br/> <math>\text{t} \tau \text{o} \text{f} \ddot{G} \ddot{D}</math> </p>                                                                                                                                                                                                                            | 18 |
|  |  |  |  |  |  | <p> <math>\gamma \ddot{A} \ddot{G} \text{f} \Sigma \ddot{O} \ddot{K}</math><br/> <math>\gamma! \ddot{G} \ddot{D} \ddot{Z} \text{z} \ddot{A} \text{z} \text{r}</math><br/> <math>\ddot{O} \ddot{D} \ddot{Z} \text{I} \ddot{O} \ddot{J} \gamma \text{f} \ddot{A} \ddot{O}</math> </p>                                                                                                                                                                                                         | 19 |
|  |  |  |  |  |  | <p> <math>\ddot{I} \ddot{D} \ddot{Z} \gamma! \ddot{G} \text{f} \ddot{O} \ddot{L} \ddot{Z} \text{f}</math><br/> <math>\gamma \ddot{O} \ddot{z} \gamma \ddot{A} \ddot{G} \text{f}</math><br/> <math>\ddot{O} \ddot{D} \ddot{Z} \text{z} \ddot{A} \text{f} \text{K} \ddot{G} \ddot{O} \ddot{Z}</math><br/> <math>\text{N} \ddot{D}</math> </p>                                                                                                                                                 | 20 |
|  |  |  |  |  |  | <p> <math>\Sigma \ddot{O} \ddot{K} \ddot{O} \ddot{Z} \ddot{G} \ddot{O}</math><br/> <math>\ddot{I} \ddot{D} \ddot{Z} \gamma! \ddot{G} \text{f} \gamma \ddot{A} \ddot{G} \text{f}</math><br/> <math>\text{N} \ddot{I} \ddot{Z} \text{p} \text{z} \text{G} \text{f} \text{f}</math><br/> <math>\ddot{G} \ddot{U} \ddot{G} \ddot{O} \ddot{A}</math> </p>                                                                                                                                        | 21 |



|  |  |  |  |  |  |                                                                                                                        |    |
|--|--|--|--|--|--|------------------------------------------------------------------------------------------------------------------------|----|
|  |  |  |  |  |  | <p> <del>YĀ Ġif Σ ārk</del><br/> <del>l2āp lḡṣM5Y!ḠDŽ</del><br/> <del>Nl f2pýḠdžD5</del><br/> <del>†ōāf NḠĀ</del> </p> | 22 |
|  |  |  |  |  |  | <p> <del>Σ ārk lḡṣ ĀḡkŪ</del><br/> <del>2 2Ṭ ōḠYĀ Ġif</del><br/> <del>ḡḡĀ†ḡḠLḡMžž</del> </p>                           | 23 |
|  |  |  |  |  |  | <p> <del>YĀ Ġif Σ ārkžōž</del><br/> <del>†TḡĀ2fĀoif</del><br/> <del>ydžhōž ýzḠĀ</del><br/> <del>Ḡžž</del> </p>         | 24 |

ḡḡḡ ḡārkōḡ kḡḡḡ

-2 - 1  
-4 -3

ýu 5ḡḡ Lḡ fḡḡ ārkōḡ kḡḡḡ

-3 - 1  
-4 - 2





| ተከታታይ ቁጥር | ተከታታይ ቁጥር | ተከታታይ ቁጥር | ተከታታይ ቁጥር | ተከታታይ ቁጥር | የጽሑፍ ስም | ጽሑፍ ቁጥር |
|-----------|-----------|-----------|-----------|-----------|---------|---------|
|           |           |           |           |           | የጽሑፍ ስም | 1       |
|           |           |           |           |           | የጽሑፍ ስም | 2       |
|           |           |           |           |           | የጽሑፍ ስም | 3       |
|           |           |           |           |           | የጽሑፍ ስም | 4       |
|           |           |           |           |           | የጽሑፍ ስም | 5       |
|           |           |           |           |           | የጽሑፍ ስም | 6       |

[illegible]

|  |  |  |  |  |                                                                                      |    |
|--|--|--|--|--|--------------------------------------------------------------------------------------|----|
|  |  |  |  |  | <p>ydž Āodž Dž lō</p> <p>†ur ōzif ŪŪPif</p> <p>ŌpZDŌf UŌŌpž</p> <p>Džž†Ōzif lzžĀ</p> | 15 |
|  |  |  |  |  | <p>āĀodž Ūhō</p> <p>†hōž KŌŌhu</p>                                                   | 16 |
|  |  |  |  |  | <p>āĀodž Ūhō</p> <p>ydždž KŌŌŌŌ</p>                                                  | 17 |
|  |  |  |  |  | <p>Lhā Āodž LžfĀ</p> <p>γ!Ōf KŌŌŌf</p> <p>ydždž KŌŌŌfĀ</p>                           | 18 |
|  |  |  |  |  | <p>āĀodž Ūhō</p> <p>Σ ōpkz fŌŌhu</p> <p>†Dždž lŌŌj UŌŌž</p>                          | 19 |
|  |  |  |  |  | <p>āĀodž zžhō</p> <p>†Ōzif KŌŌŌdž</p> <p>ýŌdžŌ†ŌŌŪĀ</p> <p>γĀ Ōf</p>                 | 20 |
|  |  |  |  |  | <p>āĀodž Lžž Ō</p> <p>ŌĀ Lžž KŌŌk</p> <p>γ!Ōf†Ōhu</p>                                | 21 |
|  |  |  |  |  | <p>Lžž āĀodž yŌ</p> <p>†Ōzif lzžf</p> <p>γ!ŌDž</p>                                   | 22 |

|  |  |  |  |  |                                                                                                                                         |    |
|--|--|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------|----|
|  |  |  |  |  | <p>           ě ě ě ě ě ě ě ě<br/>           ě ě ě ě ě ě ě ě<br/>           ě ě ě ě ě ě ě ě<br/>           ě ě ě ě ě ě ě ě         </p> | 23 |
|--|--|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------|----|







| U' 2G'D<br>lph | U' 2G'D | řdž | žAD | 5Nj<br>YAG | lqđf                                                        | Džf |
|----------------|---------|-----|-----|------------|-------------------------------------------------------------|-----|
|                |         |     |     |            | Mj f2p LpžY!Gf Džž<br>Öw5t w p f Y Äwł G'DŽ 1<br>Kčfpydždžf |     |
|                |         |     |     |            | Džž Y Ä Gf řZGüö<br>Mj2pB 2öXkİ Džž                         | 2   |
|                |         |     |     |            | yG'džDžž kYzT üö<br>Y Äwł Gf Öw5t h Džž<br>ăZPŮf řAdžlqđž   | 3   |
|                |         |     |     |            | Č žpk Ö5 yDžžZTf<br>Y Ä Gf f T o!                           | 4   |
|                |         |     |     |            | LžZTö+h Džž LPřřZf<br>Džžmžžčřj Džžw Džž<br>Y Ä Gf KřZGđž   | 5   |
|                |         |     |     |            | Y Ä Gf Ž žpk Öwdžž<br>ăß ÖwžřPŮf žüčřf<br>+h Džž            | 6   |
|                |         |     |     |            | Y Ä Gf řdžžAeùk<br>Kčžžž Křžřh Džž<br>+čřžžž Křžžž          | 7   |
|                |         |     |     |            | Ž žpkİ üDžžžhùTDŮ<br>+DžžžžÖw5 Y Äwł Gf<br>čžž+č řPŮf Džžž  | 8   |



|  |  |  |  |  |                                                                                                                                                  |    |
|--|--|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------|----|
|  |  |  |  |  | <p>             Yǎ ǎDž!ǎf f fǐp<br/>             +Džùdž fRùNjǒù5<br/>             Yǎǎ fǐn +ǎǎùr<br/>             Öǎf zǐ zǐ           </p>        | 17 |
|  |  |  |  |  | <p>             lǎnǐǐf fùǎǎ Yǎùk<br/>             +ǎǎ ĩ !gKǎǎǎǎǎǎ<br/>             Yǎǎ 2ǎǎ dǎǎ fǎǎǎǎ<br/>             f zǐǐ Lǎǎǎǎ           </p> | 18 |
|  |  |  |  |  | <p>             Yǎ ǎf z ǎǎKǎǎǎǎǎǎ<br/>             +zǐǐ ǎǎǎǎǎǎǎǎǎǎ           </p>                                                                | 19 |
|  |  |  |  |  | <p>             Yǎǎǎǎǎǎ ǎf z ǎǎǎǎǎǎ<br/>             Yǎǎǎ Yǎǎǎǎǎǎǎǎǎǎ<br/>             Öǎǎǎǎǎǎǎǎǎǎ           </p>                                | 20 |
|  |  |  |  |  | <p>             ĩ ùǎǎǎǎǎǎǎǎǎǎǎǎ<br/>             Kǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎ<br/>             Nǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎ           </p>                             | 21 |
|  |  |  |  |  | <p>             Yǎ ǎf z ǎǎǎǎǎǎǎǎǎǎǎǎ<br/>             z ǎǎǎ ĩ ùǎǎǎǎǎǎǎǎǎǎǎǎ<br/>             ǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎ           </p>                     | 22 |
|  |  |  |  |  | <p>             Yǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎ<br/>             yǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎ<br/>             +ǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎ           </p>                           | 23 |
|  |  |  |  |  | <p>             z ǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎ<br/>             Nǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎ<br/>             fǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎǎ           </p>                          | 24 |

|  |  |  |  |  |                                                                       |    |
|--|--|--|--|--|-----------------------------------------------------------------------|----|
|  |  |  |  |  | <p>ŸĂ Ģ!f Σ ōk 3 ūzō</p> <p>ýZĜĂ +T pĜĜ 2fĂo!f</p> <p>Ōŏž ydž hŌž</p> | 25 |
|--|--|--|--|--|-----------------------------------------------------------------------|----|